CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022 Date: 10.02.2022

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.
Agency : **Sri. B N Girish,** Contractor, Bangalore.
Name of Work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Sample : :Cement (Dalmia 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: : January-2021
Date of Testing 08.02.2022 to 10.02.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

Note:
The material is satisfied as per the requirements.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022 Date 10.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Agency : **Sri. B N Girish,** Contractor, Bangalore.

Name of Work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Date of Testing 10.02.2022

Material : Sand(Plastering) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	15	1.50	1.50	98.5	95-100
2.36	17	1.70	3.20	96.8	95-100
1.18	34	3.40	6.60	93.4	90-100
600 Micron	71	7.10	13.70	86.3	80-100
300 Micron	251	25.10	38.80	61.2	20-65
150 Micron	512	51.20	90.00	10.0	0-15

Note:
The material is satisfied as per the requirements.

ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022 Date 10.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Agency : **Sri. B N Girish,** Contractor, Bangalore.

Name of Work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Date of Testing 10.02.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	76	7.60	7.60	92.4	90-100
2.36	131	13.10	20.70	79.3	75-100
1.18	152	15.20	35.90	64.1	55-90
600 Micron	251	25.10	61.00	39.0	35-59
300 Micron	186	18.60	79.60	20.4	8-30
150 Micron	124	12.40	92.00	8.0	0-10

Note:

The material is satisfied as per the requirements.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022 Date 10.02.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Agency : **Sri. B N Girish,** Contractor, Bangalore.

Name of Work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Date of Testing 10.02.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	181	1.21	1.21	98.79	95-100
20	8631	57.54	58.75	41.25	30-70
10	3326	22.17	80.92	19.08	10-35
4.75	2530	16.87	97.79	2.21	0-5

Note:

The material is satisfied as per the requirements.

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Job No.: CQCE/BBMP/BNG/17/2021-2022 Date 10.02.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Agency : **Sri. B N Girish,** Contractor, Bangalore.

Name of Work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Date of Testing 10.02.2022

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	213	4.3	4.3	95.7	95-100
10	2768	55.4	59.6	40.4	25-55
4.75	1689	33.8	93.4	6.6	0-10

Note:

The material is satisfied as per the requirements.

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Job No: CQCE/BBMP/BNG/17/2021-2022

Date: 10.02.2022

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division, BBMP, Bangalore.

Agency : **Sri. B N Girish,** Contractor, Bangalore.

Name of the Work : Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Date of Testing 10.02.2022

Size of Blocks 400mm*200mm*200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	30.8	281.3	3.52	1925.00	Minimum required Compressive Strength of Individual Units $3.5N/mm^2$
2	Block 2	32.4	286.3	3.58	2025.00	
3	Block 3	31.6	295.4	3.69	1975.00	
4	Block 4	31.7	303.9	3.80	1981.25	

Note:
The material is satisfied as per the requirements.

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Job No.: CQCE/BBMP/BNG/17/2021-2022

Date 10.02.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Agency : **Sri. B N Girish,** Contractor, Bangalore.

Name of Work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 10.02.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.396	516	601	1.16	15.5
2	TMT	10	0.618	521	618	1.19	16
3	TMT	12	0.888	535	626	1.17	17

Note:
The material is satisfied as per the requirements

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022

Date : 22.02.2022

TEST REPORT ON VITRIFIED TILES

*Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

*Contractor : **Sri. B N Girish,** Contractor, Bangalore.

*Name of the work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Technical Reference : IS: 13630 - 2006 - Method of Testing Vitrified Tiles
IS 15622 - 2006 - Specification of Vitrified Tiles

No. of Samples Tested : 05 (Five)

Date of Testing 17.02.2022 to 22.02.2022

I. MODULUS OF RUPTURE

Sl. No.	Measured Dimension (mm)	Modulus of Rupture (N/mm^2)	Average (N/mm^2)	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	48.3	47.62	Average 47, individual minimum 44 N/mm^2
2	600 x 600 x 9.8	46.8		
3	600 x 600 x 9.9	47.4		
4	600 x 600 x 9.8	48.1		
5	600 x 600 x 9.8	47.5		

II. CHEMICAL RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	No visible effect	Class AA, min (13630 Part 8)
2	600 x 600 x 9.8	No visible effect	
3	600 x 600 x 9.9	No visible effect	
4	600 x 600 x 9.8	No visible effect	
5	600 x 600 x 9.8	No visible effect	

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III. STAIN RESISTANCE

Sl. No.	Measured Dimension (mm)	Visual observations	Requirement as per IS: 15622 (Reaffirmed 2006)
1	600 x 600 x 9.8	Stain Removed by Water	Class 1, min (13630 Part 8)
2	600 x 600 x 9.8	Stain Removed by Water	
3	600 x 600 x 9.9	Stain Removed by Water	
4	600 x 600 x 9.8	Stain Removed by Water	
5	600 x 600 x 9.8	Stain Removed by Water	

Note:
The material is satisfied as per the requirements.

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Job No.: CQCE/BBMP/BNG/17/2021-2022

04.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.
Contractor	**: Sri. B N Girish,** Contractor, Bangalore.
Name of the work	:Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	04.03.2022	8.006	368.9	16.40
2	25.02.2022	04.03.2022	8.019	345.0	15.33
3	25.02.2022	04.03.2022	8.033	351.0	15.60

Note:
The material is satisfied as per the requirements.

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Job No.: CQCE/BBMP/BNG/17/2021-2022

25.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Contractor : **Sri. B N Girish,** Contractor, Bangalore.

Name of the work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	25.03.2022	8.161	481.0	21.38
2	25.02.2022	25.03.2022	8.020	495.0	22.00
3	25.02.2022	25.03.2022	8.141	502.0	22.31

Note:
The material is satisfied as per the requirements.

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Job No.: CQCE/BBMP/BNG/17/2021-2022

04.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Contractor : **Sri. B N Girish,** Contractor, Bangalore.

Name of the work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	04.03.2022	8.150	372.1	16.54
2	25.02.2022	04.03.2022	8.045	342.2	15.21
3	25.02.2022	04.03.2022	8.122	353.1	15.69

Note:
The material is satisfied as per the requirements.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022

25.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Contractor : **Sri. B N Girish,** Contractor, Bangalore.

Name of the work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2022	25.03.2022	8.191	488.2	21.70
2	25.02.2022	25.03.2022	8.011	493.8	21.95
3	25.02.2022	25.03.2022	8.163	502.9	22.35

Note:
The material is satisfied as per the requirements.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022

12.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Contractor : **Sri. B N Girish,** Contractor, Bangalore.

Name of the work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2022	12.03.2022	8.110	373.2	16.59
2	05.03.2022	12.03.2022	8.132	343.4	15.26
3	05.03.2022	12.03.2022	8.156	359.8	15.99

Note:
The material is satisfied as per the requirements.

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/BNG/17/2021-2022

02.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yeshwantpura Sub Division,BBMP, Bangalore.

Contractor : **Sri. B N Girish,** Contractor, Bangalore.

Name of the work :Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Flyover, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.03.2022	02.04.2022	8.059	518.5	23.04
2	05.03.2022	02.04.2022	8.110	523.4	23.26
3	05.03.2022	02.04.2022	8.023	501.7	22.30

Note:
The material is satisfied as per the requirements

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